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## **CLAIMS**

What Is Claimed:

1. Relaxin like factor comprising an A chain and a B chain,

said A chain having the amino acid sequence:
Gln-Leu-Tyr-Ser-Ala-Leu-Ala-Asn-Lys-Cys-Cys-His-

Val-Gly-Cys-Thr-Lys-Arg-Ser-Leu-Ala-Arg-Phe-Cys or an amino acid sequence truncated by up to about 6 amino acids from the N-terminus and/or by up to 6 amino acids from the C-terminus:

said B chain having the amino acid sequence:
Asp-Ser-Trp-Met-Glu-Glu-Val-Ile-Lys-Leu-Cys-Gly-Arg-Glu-Leu-Val-Arg-Ala-Gln-Ile-Ala-Ile-Cys-Gly-Met-Ser-Thr-Trp-Ser

or an amino acid sequence truncated by up to 5 amino acids from the N-terminus and/or by up to 5 amino acids from the C-terminus;

said A and B chains linked by disulfide bonds between All and Bll and wherein said relaxin like factor displaces bound relaxin tracer from the receptor to which it is bound.

- 2. The relaxin like factor of Claim 1 wherein 0 up to about 6 amino acids are deleted from the 5' end and 0 up to about 6 amino acids are deleted from the 3' end of the A-chain.
- 3. The relaxin like factor of Claim 1 wherein 0 up to about 5 amino acids are deleted from the 5' end and 0 up to about 5 amino acids are deleted from the 3' end of the B-chain.
- 4. A method of treating a mammal for a condition susceptible to treatment with relaxin, comprising administering to a mammal in need thereof a therapeutically effective amount of the relaxin like factor of Claim 1.
- 35 5. The method of Claim 3 wherein the disease is selected from the group comprising cardiovascular



disease, neurodegenerative or neurologic disease, sinus bradycardia, depression, hair loss, or diseases related to uncontrolled or abnormal collagen or fibronectin formation.

- 6. The method of Claim 5 wherein the disease related to the uncontrolled or abnormal collagen formation is scleroderma.
  - 7. A pharmaceutical composition comprising the relaxin like factor of Claim 1 and a pharmaceutically acceptable excipient.
    - 8. The pharmaceutical composition of Claim 7 additionally comprising relaxin or relaxin analog.
  - 9. The pharmaceutical composition of Claim 8 wherein said relaxin like factor and relaxin are present in synergistic amounts.
  - 10. The relaxin analog of Claim 1 wherein said relaxin like factor is radiolabelled.
  - 11. A method for using the relaxin like factor of Claim 1 in a binding assay.
- 20 12. A method for using the relaxin like factor of composition of Claim 10 for relaxin receptor mapping.
- 13. A pharmaceutical composition of Claim 7 wherein the effective amount is 0.1 to 500  $\mu g/kg$  of 25 body weight per day.

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